Payne & Dolan, Inc.

Racine Quarry - Village of Caledonia

Recorded Ground Vibration and Airblast Levels for the East Quarry CUP (New) Area March 2023

All Ground Vibrations (PPV) were below State of Wisconsin and Village of Caledonia Maximum Limits

All Airblasts (AO) were below State of Wisconsin and Village of Caledonia Maximum Limits

Time	Activity	Location	Distance	PPV	Freq	AO
3/28/2023 12:37	EAST 1	Ellis	1,547	0.065	12.8	108
3/28/2023 12:37	EAST 1	St. Rita	1,335	0.08	14.3	117
3/28/2023 12:37	EAST 1	Marquette	847	0.208	18.5	111
3/28/2023 12:37	EAST 1	Berkeley	1,263	0.115	17.9	113

N/T - seismograph did not trigger

Ground Vibration (PPV) Limit - The Village of Caledonia explosives use ordinance states that "the ground vibration produced by such blasts does not exceed 0.65 inches per second or the limitations imposed by the Wisconsin Department of Industry, Labor and Human Relations in Section ILHR 7.64(4), Wis. Adm. Code, as amended from time to time, whichever is more stringent".

Airblast (AO) Limit - The Village of Caledonia explosives use ordinance states that "Airblast shall not exceed the maximum limits listed in Table A-1 at the location of any dwelling, public building, place of employment, school, church or community or institutional building outside and beyond the permitted explosives use area. Notwithstanding this general requirement, an annual permit holder subject to this limitation may exceed the limitation on up to five percent (5%) of the blasts it initiates during the six (6) month period from July 1 to December 31, and during the six (6) month period from January 1 to June 30, without violating this ordinance, provided that the airblast produced by such blasts does not exceed the limitations on airblast imposed by Wisconsin Department of Industry, Labor and Human Relations in Subsection ILHR 7.64(2), Wis. Adm. Code, as amended from time to time."

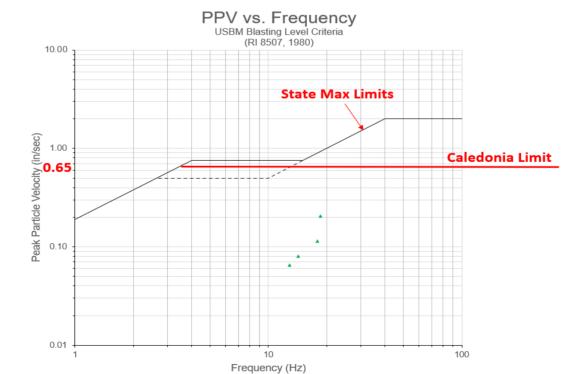
TABLE A-1 AIRBLAST

LIMITS

Lower Frequency Limit of Measuring System in Hz
2 Hz or lower -- Flat response
6 Hz or lower -- Flat response

Maximum Level in db

123 peak 129 peak



—— Drywall (0.75 ips) ---- Plaster (0.50 ips)